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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

JOHNSON et al.

NATIONAL PHASE ENTRY OF:
PCT/AU98/00106

Serial No.: Unknown

Filed: Herewith

Title: INVISIBLE DIGITAL WATERMARKS

Examiner: Unknown

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PRELIMINARY AMENDMENT

Sir:

This Preliminary Amendment is being filed concurrently with the above identified U.S. National Phase Application. The Applicant respectfully requests consideration of the Application in view of the following amendments and remarks.

Amendments

1. (amended) A method for inserting identification or authentication data into digital media data, including the steps of:
 - segmenting the digital media data into data blocks;
 - applying a pseudo-random reversible function to a block of the digital media data to obtain a modified data block;
 - applying an orthogonal transform on the modified data block to obtain transform domain data;
 - modifying at least one selected transform domain data coefficient in accordance with the identification or authentication data;
 - inverse transforming the transform domain data having the at least one modified coefficient; and
 - applying an inverse pseudo-random function to obtain watermarked digital media data.
2. (not amended) A method as claimed in claim 1, wherein the pseudo-random function applied to the data block is a keyed function controlled by a cryptographic key.